

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A method of tuning a cardiac prosthetic pacing device, the method comprising the steps of:

(a) monitoring the flow output from the heart utilizing a transcutaneous continuous wave Doppler signal directed at the heart to obtain a signal indicative of intra-cardiac blood flow velocity;

(b) processing the signal to obtain a velocity time integral; and

(c) adjusting the timing of pacing events by said cardiac prosthetic pacing device so as to optimise the flow from the heart under operational conditions.

2. (Canceled)

3. (Original) A method as claimed in claim 1 wherein said method is repeated under a number of different operational conditions for a patient including walking AND/OR running.

4. (Original) A method as claimed in claim 1 wherein said method is repeated under a number of different pharmacological conditions for a patient.

5. (Currently Amended) An apparatus for tuning a cardiac prosthetic pacing device, the apparatus including:

monitoring means for ~~non-invasively monitoring the flow of blood out of the heart~~ using transcutaneous wave Doppler directed at the heart to obtain a signal indicative of intra-cardiac blood flow velocity;

control means for controlling the operation of the cardiac prosthetic pacing device including variation of the pacing rate; and

processing means interconnected to said monitoring means and said control means, said processing means processing the signal to obtain a velocity time integral, and instructing said control means to vary the pacing rate of said cardiac prosthetic pacing device and monitor the corresponding measurement of said monitoring means.

6-8. (Canceled)